

528, 657

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/111408 A1

(51) International Patent Classification⁷: **F02B 55/14,**
F01C 1/22

(21) International Application Number:
PCT/IT2003/000559

(22) International Filing Date:
19 September 2003 (19.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
TV2003A000089 19 June 2003 (19.06.2003) IT

(71) Applicant and

(72) Inventor: CANAL, Orlando [IT/BR]; P.zza Jeronimo
Monteiro 84, BR-Guarapari ES (BR).

(74) Agents: AGOSTINI, Agostino et al.; Dragotti & Associati
S.r.l., Via Paris Bordone, 9, 31100 Treviso (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

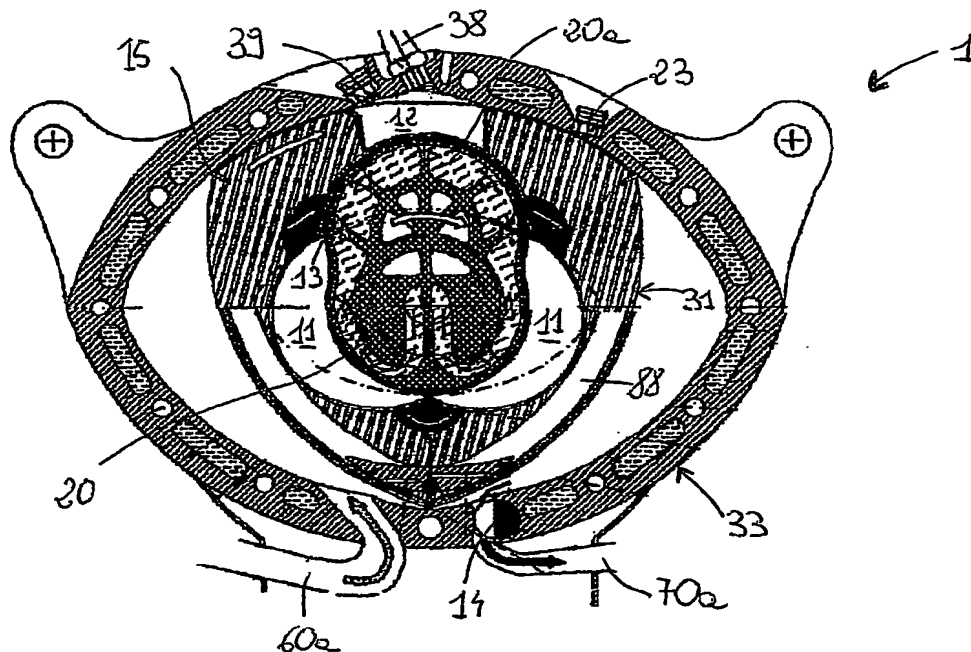
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ROTARY MACHINE HAVING TWO ROTORS



(57) Abstract: Rotary machine, such as engine, compressor, pump or the like, comprising within a stator (33) with at least an intake port (60) and an exhaust port (70), a first rotor (31) having at least two bases and at least a peripheral surface, in which conduits (12) provided within the rotor (31) connect at least two faces of said at least a peripheral surface. A second rotor (20) is contained in the first rotor (31) and is attached to a shaft (32) extending through the first rotor (31) coaxially therewith.

WO 2004/111408 A1

BEST AVAILABLE COPY